



Europäisches Patentamt
European Patent Office
Office européen des brevets



Publication number: **0 464 562 A3**

12

EUROPEAN PATENT APPLICATION

21 Application number: 91110385.1

51 Int. Cl. 5: H04L 29/06

22 Date of filing: 24.06.91

30 Priority: 29.06.90 US 546628

53 Date of publication of application:
08.01.92 Bulletin 92/02

84 Designated Contracting States:
DE FR GB IT NL

86 Date of deferred publication of the search report:
04.11.92 Bulletin 92/45

71 Applicant: DIGITAL EQUIPMENT
CORPORATION
146 Main Street
Maynard, Massachusetts 01745(US)

72 Inventor: Hawe, William R.
16 Independence Road
Pepperell, Massachusetts 01463(US)
Inventor: Lampson, Butler W.
180 Lakeview Avenue
Cambridge, Massachusetts 02138(US)
Inventor: Gupta, Amar
35 Woodstone Road
Northboro, Massachusetts 01532(US)

74 Representative: Betten & Resch
Reichenbachstrasse 19
W-8000 München 5(DE)

54 Method and apparatus for decryption of an information packet having a format subject to modification.

57 A technique to facilitate decryption processing of information packets transmitted over a communication network after encryption in accordance with a specific network protocol, the details of which may be subject to later change as standards are developed or modified. Programmable registers are used in the decryption process to hold information for identifying an incoming information packet as being subject to the specific protocol and requiring decryption, and identifying a starting location of a data field

to be decrypted. Specifically one programmable register contains a first offset locating an identifier field in the packet, in which a cryptographic identifier will be found if the packet is one conforming to the protocol; another programmable register contains a cryptographic identifier value that will be found in the identifier field if decryption is to be performed, and a third programmable register contains a second offset to locate the beginning of a data field to be decrypted.

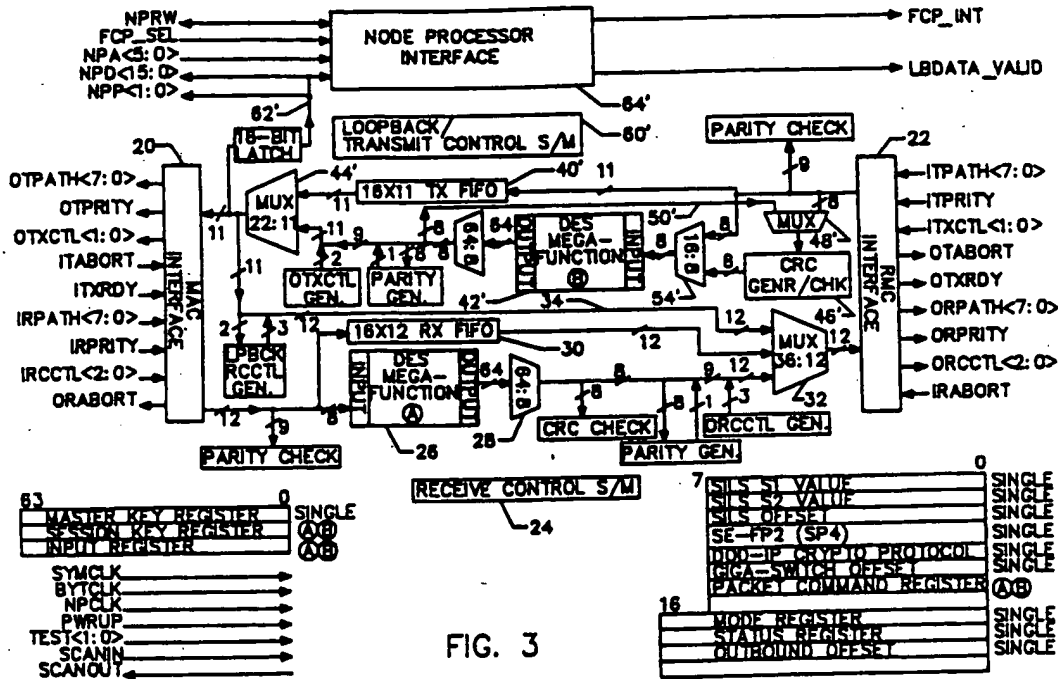


FIG. 3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 91 11 0385

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
Y	EP-A-0 289 248 (ATT) * page 2, line 52 - page 3, line 14 * * page 3, line 35 - line 54 * * page 4, line 44 - line 54 * * page 5, line 29 - line 43 * * figures 1-3 * ---	1,2,4	HD4L29/06
Y	CCITT RECOMMENDATION X.509 vol. VIII, no. 8, 14 November 1988, MELBOURNE, AU 'DATA COMMUNICATION NETWORKS: THE DIRECTORY - AUTHENTICATION FRAMEWORK' * paragraph 1.6 * * paragraph 8.4 * * paragraph 8.5 * ---	1,2,4	
A	EP-A-0 279 232 (IBM) * column 7, line 21 - column 8, line 1 * ---	1-5	
A	GB-A-2 200 818 (INTEL) * page 1, line 1 - line LAST * * page 9, line 20 - line 23 * * claim 1; figure 1 * -----	1-5	TECHNICAL FIELDS SEARCHED (Int. Cl.5) HD4L
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
THE HAGUE		04 SEPTEMBER 1992	CANDSA-ARESTE C.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons A : member of the same patent family, corresponding document			